

Jonathan Coignard

*Computer sciences &
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Education

2010 – 2015 **Engineering degree - Master equivalent**, *Compiègne University of Technology*, France.
Urban systems engineering, specializing in electric power system - Research minor

Spring 2012 **Semester of studies abroad**, *Riga Technical University*, Latvia.
Electrical engineering

Relevant Experience

February 2015 to current **Scientific Engineering Associate**, *Lawrence Berkeley National Laboratory*.
Electric vehicle charging control and distribution grid analysis. Publications:

- CyDER – an FMI-based co-simulation platform for distributed energy resources, *Journal of Building Performance Simulation*, 2018
- Co-simulation framework for blockchain based market designs and grid simulations, PES GM 2018 conference
- Clean vehicles as an enabler for a clean electricity grid, *Environmental Research Letters*, 2017
- Quantifying electric vehicle battery degradation from driving vs. V2G services, PES GM 2016

September 2013 to march 2014 **Research engineer (internship)**, *CEREMA*, Brest.
Near shore quantification of incident wave energy and economical study of the *kWh* price for wave energy systems. Publications:

- EMACOP project: characterizing the wave energy resources of hot spots in Brittany for on-shore WEC, *European Wave and Tidal Energy Conference (2015 EWTEC)*.
- EMACOP project: Digital modeling of the waves toward Esquibien's dam using SWASH, *Paralia Journal*, 2014.

2012 to 2015 **Master student**, *Compiègne University of Technology*.
→ Thesis project: optimization of the power supplied by a small scale wind-turbine using current and voltage measurements. Numerical modeling of a wind-turbine using *SIMULINK/MATLAB*, and practical implementation on a test bench.
→ President of the digital and paper drawing association "*DaDa*".

Summers of 2011 to 2014 **Volunteering**, *Archelon, The Sea Turtle Protection Society Of Greece*.
Conservation of the endangered species *Caretta caretta* (loggerhead sea turtle) at influential nesting beaches in the Mediterranean.

Skills

Programming Python, Django, Docker, Git, D3.js, PowerFactory, CymDIST, FMI standard, SQL, PostgreSQL, Redis, MATLAB and Simulink, OPAL-RT, Solidity, Latex

Languages French: mother tongue - English: fluent - Spanish: intermediary

For more information, <http://jonathancoignard.com>